



OIEP

## RAW SEQUENCE LISTING

DATE: 02/14/2002

PATENT APPLICATION: US/09/770,102A

TIME: 10:07:10

Input Set : A:\EP.txt

Output Set: N:\CRF3\02142002\I770102A.raw

pp. 5, 4

3 <110> APPLICANT: Cyclacel  
 5 <120> TITLE OF INVENTION: Compositions and Methods for Monitoring the Modification of  
 Modification

6 Dependent Binding Partner Polypeptides  
 8 <130> FILE REFERENCE: 10069/1062  
 10 <140> CURRENT APPLICATION NUMBER: 09/770102A  
 11 <141> CURRENT FILING DATE: 2001-01-25  
 13 <150> PRIOR APPLICATION NUMBER: US 60/179283  
 14 <151> PRIOR FILING DATE: 2000-01-31  
 16 <160> NUMBER OF SEQ ID NOS: 57  
 18 <170> SOFTWARE: PatentIn version 3.1  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 17  
 22 <212> TYPE: PRT  
 23 <213> ORGANISM: Unknown  
 25 <220> FEATURE:  
 26 <223> OTHER INFORMATION: ADP-ribosylation domain  
 28 <220> FEATURE:  
 29 <221> NAME/KEY: DOMAIN  
 30 <222> LOCATION: (1)..(17)  
 31 <223> OTHER INFORMATION: ADT-ribosylation site  
 34 <400> SEQUENCE: 1  
 36 Met Leu Cys Cys Met Arg Arg Thr Lys Gln Val Glu Lys Asn Asp Asp  
 37 1 5 10 15  
 40 Asp  
 44 <210> SEQ ID NO: 2  
 45 <211> LENGTH: 10  
 46 <212> TYPE: PRT  
 47 <213> ORGANISM: Unknown  
 49 <220> FEATURE:  
 50 <223> OTHER INFORMATION: ADP-ribosylation site  
 52 <220> FEATURE:  
 53 <221> NAME/KEY: DOMAIN  
 54 <222> LOCATION: (1)..(10)  
 55 <223> OTHER INFORMATION: ADP-ribosylation site  
 58 <400> SEQUENCE: 2  
 60 Phe Lys Gln Arg Gln Thr Arg Gln Phe Lys  
 61 1 5 10  
 64 <210> SEQ ID NO: 3  
 65 <211> LENGTH: 30  
 66 <212> TYPE: PRT  
 67 <213> ORGANISM: Unknown  
 69 <220> FEATURE:  
 70 <223> OTHER INFORMATION: ubiquitination site

Does Not Comply  
 Corrected Diskette Needed

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72 <220> FEATURE:
73 <221> NAME/KEY: DOMAIN
74 <222> LOCATION: (1)..(30)
75 <223> OTHER INFORMATION: ubiquitination site
78 <400> SEQUENCE: 3
80 Met Phe Gln Ala Ala Glu Arg Pro Gln Glu Trp Ala Met Glu Gly Pro
81 1             5             10             15
84 Arg Asp Gly Leu Lys Lys Glu Arg Leu Leu Asp Asp Arg His
85             20             25             30
88 <210> SEQ ID NO: 4
89 <211> LENGTH: 21
90 <212> TYPE: PRT
91 <213> ORGANISM: Unknown
93 <220> FEATURE:
94 <223> OTHER INFORMATION: ubiquitination site
96 <220> FEATURE:
97 <221> NAME/KEY: DOMAIN
98 <222> LOCATION: (1)..(21)
99 <223> OTHER INFORMATION: ubiquitination site
102 <400> SEQUENCE: 4
104 His Gly Ser Gly Ala Trp Leu Leu Pro Val Ser Leu Val Lys Arg Lys
105 1             5             10             15
108 Thr Thr Leu Ala Pro
109             20
112 <210> SEQ ID NO: 5
113 <211> LENGTH: 10
114 <212> TYPE: PRT
115 <213> ORGANISM: Unknown
117 <220> FEATURE:
118 <223> OTHER INFORMATION: O-GlcNAc site
120 <220> FEATURE:
121 <221> NAME/KEY: DOMAIN
122 <222> LOCATION: (1)..(10)
123 <223> OTHER INFORMATION: O-GlcNAc site
126 <400> SEQUENCE: 5
128 Gly Thr Thr Ser Thr Ile Gln Thr Ala Pro
129 1             5             10
132 <210> SEQ ID NO: 6
133 <211> LENGTH: 12
134 <212> TYPE: PRT
135 <213> ORGANISM: Unknown
137 <220> FEATURE:
138 <223> OTHER INFORMATION: O-GlcNAc site
140 <220> FEATURE:
141 <221> NAME/KEY: DOMAIN
142 <222> LOCATION: (1)..(12)
143 <223> OTHER INFORMATION: O-GlcNAc site
146 <400> SEQUENCE: 6
148 Ser Ala Val Ser Ser Ala Asp Gly Thr Val Leu Lys

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149 1          5          10
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153 <211> LENGTH: 18
154 <212> TYPE: PRT
155 <213> ORGANISM: Unknown
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158 <223> OTHER INFORMATION: O-GlcNAc site
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161 <221> NAME/KEY: DOMAIN
162 <222> LOCATION: (1)..(18)
163 <223> OTHER INFORMATION: O-GlcNAc site
166 <400> SEQUENCE: 7
168 Asp Ser Ser Thr Asp Leu Thr Gln Thr Ser Ser Ser Gly Thr Val Thr
169 1          5          10          15
172 Leu Pro
176 <210> SEQ ID NO: 8
177 <211> LENGTH: 12
178 <212> TYPE: PRT
179 <213> ORGANISM: Unknown
181 <220> FEATURE:
182 <223> OTHER INFORMATION: O-GlcNAc site
184 <220> FEATURE:
185 <221> NAME/KEY: DOMAIN
186 <222> LOCATION: (1)..(12)
187 <223> OTHER INFORMATION: O-GlcNAc site
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192 Met Ala Gly Gly Pro Ala Asp Thr Ser Asp Pro Leu
193 1          5          10
196 <210> SEQ ID NO: 9
197 <211> LENGTH: 13
198 <212> TYPE: PRT
199 <213> ORGANISM: Unknown
201 <220> FEATURE:
202 <223> OTHER INFORMATION: O-GlcNAc site
204 <220> FEATURE:
205 <221> NAME/KEY: DOMAIN
206 <222> LOCATION: (1)..(13)
207 <223> OTHER INFORMATION: O-GlcNAc site
210 <400> SEQUENCE: 9
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213 1          5          10
216 <210> SEQ ID NO: 10
217 <211> LENGTH: 8
218 <212> TYPE: PRT
219 <213> ORGANISM: Unknown
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Consensus sequence
224 <220> FEATURE:
225 <221> NAME/KEY: MISC_FEATURE

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## RAW SEQUENCE LISTING

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Input Set : A:\EP.txt

Output Set: N:\CRF3\02142002\I770102A.raw

226 <222> LOCATION: (1)..(8)  
 227 <223> OTHER INFORMATION: Xaa at position 6 may be any amino acid  
 230 <220> FEATURE:  
 231 <221> NAME/KEY: MISC\_FEATURE  
 232 <222> LOCATION: (1)..(8)  
 233 <223> OTHER INFORMATION: Xaa at position 3 may be any amino acid  
 236 <400> SEQUENCE: 10  
 OK-> 238 Arg Arg Xaa Arg Arg Xaa Ser Thr  
 239 1 5  
 242 <210> SEQ ID NO: 11  
 243 <211> LENGTH: 5  
 244 <212> TYPE: PRT  
 245 <213> ORGANISM: Unknown  
 247 <220> FEATURE:  
 248 <223> OTHER INFORMATION: Consensus sequence  
 250 <220> FEATURE:  
 251 <221> NAME/KEY: DOMAIN  
 252 <222> LOCATION: (1)..(5)  
 253 <223> OTHER INFORMATION: Consensus sequence, each Xaa is any amino acid  
 256 <220> FEATURE:  
 257 <221> NAME/KEY: MISC\_FEATURE  
 258 <222> LOCATION: (1)..(5)  
 259 <223> OTHER INFORMATION: X at position 2, 3, and 5 can be any amino acid  
 262 <400> SEQUENCE: 11  
 OK-> 264 Lys Xaa Xaa Ser Xaa  
 265 1 5  
 268 <210> SEQ ID NO: 12  
 269 <211> LENGTH: 3  
 270 <212> TYPE: PRT  
 271 <213> ORGANISM: Unknown  
 273 <220> FEATURE:  
 274 <223> OTHER INFORMATION: Consensus sequence  
 276 <220> FEATURE:  
 277 <221> NAME/KEY: DOMAIN  
 278 <222> LOCATION: (1)..(3)  
 279 <223> OTHER INFORMATION: Consensus sequence, Xaa is any amino acid  
 282 <220> FEATURE:  
 283 <221> NAME/KEY: MISC\_FEATURE  
 284 <222> LOCATION: (1)..(3)  
 285 <223> OTHER INFORMATION: X at position 2 can be any amino acid  
 288 <400> SEQUENCE: 12  
 OK-> 290 Arg Xaa Thr  
 291 1  
 294 <210> SEQ ID NO: 13  
 295 <211> LENGTH: 5  
 296 <212> TYPE: PRT  
 297 <213> ORGANISM: Unknown  
 299 <220> FEATURE:  
 300 <223> OTHER INFORMATION: Consensus sequence

## RAW SEQUENCE LISTING

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Input Set.: A:\EP.txt

Output Set: N:\CRF3\02142002\I770102A.raw

302 <220> FEATURE:  
 303 <221> NAME/KEY: DOMAIN  
 304 <222> LOCATION: (1)..(5)  
 305 <223> OTHER INFORMATION: Consensus sequence, each Xaa is any amino acid  
 308 <220> FEATURE:  
 309 <221> NAME/KEY: MISC\_FEATURE  
 310 <222> LOCATION: (1)..(5)  
 311 <223> OTHER INFORMATION: X at posistion 2, 3, and 5 can be any amino acid  
 314 <400> SEQUENCE: 13  
 316 Arg Xaa Xaa Ser Xaa  
 317 1 5  
 320 <210> SEQ ID NO: 14  
 321 <211> LENGTH: 4  
 322 <212> TYPE: PRT  
 323 <213> ORGANISM: Unknown  
 325 <220> FEATURE:  
 326 <223> OTHER INFORMATION: Consensus sequence  
 328 <220> FEATURE:  
 329 <221> NAME/KEY: DOMAIN  
 330 <222> LOCATION: (1)..(4)  
 331 <223> OTHER INFORMATION: Consensus sequence, each Xaa is any amino acid  
 334 <220> FEATURE:  
 335 <221> NAME/KEY: MISC\_FEATURE  
 336 <222> LOCATION: (1)..(4)  
 337 <223> OTHER INFORMATION: X at posistion 1 and 4 can be any amino acid  
 340 <400> SEQUENCE: 14  
 342 Xaa Ser Arg Xaa  
 343 1  
 346 <210> SEQ ID NO: 15  
 347 <211> LENGTH: 8  
 348 <212> TYPE: PRT  
 349 <213> ORGANISM: Unknown  
 351 <220> FEATURE:  
 352 <223> OTHER INFORMATION: Consensus sequence  
 354 <220> FEATURE:  
 355 <221> NAME/KEY: DOMAIN  
 356 <222> LOCATION: (1)..(8)  
 357 <223> OTHER INFORMATION: Consensus sequence, each Xaa is any amino acid  
 360 <220> FEATURE:  
 361 <221> NAME/KEY: MISC\_FEATURE  
 362 <222> LOCATION: (1)..(8)  
 363 <223> OTHER INFORMATION: X at posistion 1, 3, 4, 6 and 8 can be any amino acid  
 366 <400> SEQUENCE: 15  
 368 Xaa Arg Xaa Xaa Ser Xaa Arg Xaa  
 369 1 5  
 372 <210> SEQ ID NO: 16  
 373 <211> LENGTH: 6  
 374 <212> TYPE: PRT  
 375 <213> ORGANISM: Unknown

Use of n and/or Xaa has been detected in the Sequence Listing.  
 Review the Sequence Listing to insure a corresponding  
 explanation is presented in the <220> to <223> fields of  
 each sequence using n or Xaa.

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/770,102A

DATE: 02/14/2002

TIME: 10:07:11

Input Set : A:\EP.txt

Output Set: N:\CRF3\02142002\I770102A.raw

L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:368 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:466 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20  
L:678 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29  
L:1104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48  
L:1130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49  
L:1156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50  
L:1182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51  
L:1208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52